



Next Generation Wireless Communications (NGWC)

DESCRIPTION

NGWC provides a secure, ultra-low power, wireless mesh network protocol to collect and route logistics information to approved/supported automated information systems (AIS). Harnessing mesh network technology, LIA is integrating sensors, GPS, and state-of-the-art software-defined radio technologies to enable an architecture for collecting and routing data off platforms. NGWC will enable near-real-time, continuous asset visibility at a fraction of the cost of the current nodal aRFID capability. Further, NGWC enables continuous 'in the yard' visibility and visibility in the last tactical mile. While the NGWC mesh protocol will revolutionize asset and in-transit visibility across the entire distribution enterprise, the NGWC mesh protocol will support a significant number of applications both within and beyond logistics to include CBM+ and Sense & Respond Logistics. In collaboration with Army Materiel Command (AMC) and the PM J-AIT, LIA is vetting the NGWC mesh networking protocol through the PEO-EIS to determine optimal acquisition/transition strategy for NGWC.

Stakeholders: CERDEC, AMC, USTRANSCOM, SDDC, USMC, G44D
Transition Partners: PEO-EIS (PM JAIT)

MILESTONES

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|--------------------------------------|--------------|
| ✓ SatCom Demo (Pakistan) | Feb 2007 |
| ✓ Capstone Mesh Demo | Apr 2007 |
| ✓ JLOTS 2009 (Mesh Operational Test) | Jun 2009 |
| ✓ CWID 2010 | Jun 2010 |
| ✓ Kuwait Lot 58 Washrack PoP (Start) | Feb 2011 |
| ✓ PoP Expansion Decision (SWA-wide) | Mar 2011 |
| ✓ NGWC BCA Delivery to LIA | Apr 2011 |
| ❑ Expand AMATS throughout Kuwait | Jul/Aug 2011 |
| ❑ FY12 OSD JCTD Acceptance | Oct 2011 |

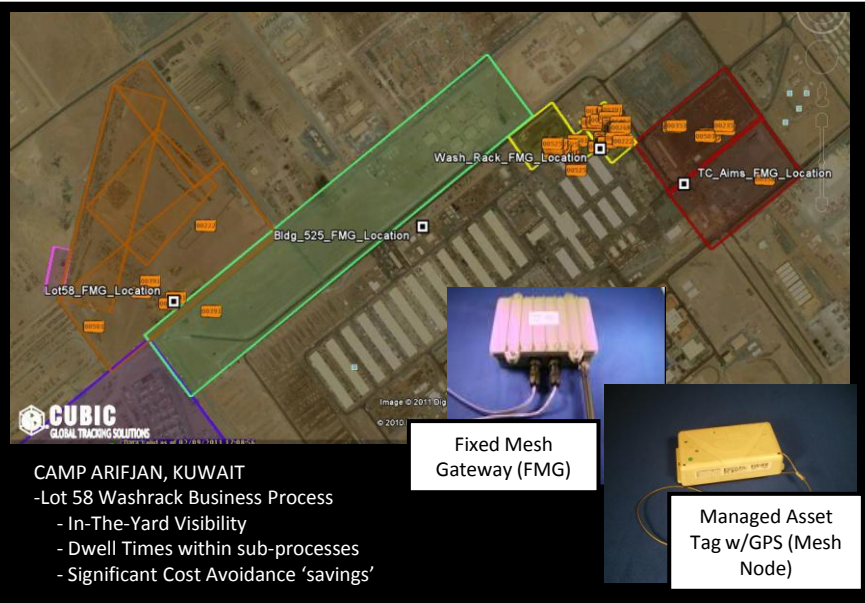
CAPABILITIES & WAY AHEAD

Key Capabilities

- Secure Mesh network protocol, GPS, Sensors
- Continuous, near-real-time, secure enterprise-wide networking architecture
- Significant applications both within and outside logistics

Way Ahead

- Complete Washrack Implementation PoP
- Expand PoP capability throughout Kuwait
- Identify owning DAA/Transition Partner
- FY12 OSD JCTD to complete the NGWC protocol's full capability
 - CBM+
 - CLOE
 - S&RL
- Test and Certify the Mesh Network Protocol
- Transition the capability to the appropriate PM



CAMP ARIFJAN, KUWAIT
-Lot 58 Washrack Business Process
- In-The-Yard Visibility
- Dwell Times within sub-processes
- Significant Cost Avoidance 'savings'

Fixed Mesh
Gateway (FMG)

Managed Asset
Tag w/GPS (Mesh
Node)